TDMS No. 05174 - 05 Test Type: CHRONIC Route: DOSED FEED P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

**CRESOLS** 

**CAS Number:** 1319-77-3

Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

F1\_R2Males

C Number:

Species/Strain: RATS/F 344

C62260B

**Lock Date:** 

02/09/2005

**Cage Range:** 

ALL

**Date Range:** 

ALL

**Reasons For Removal:** 

ALL

**Removal Date Range:** 

ALL

**Treatment Groups:** 

Include ALL

Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA

**CRESOLS** 

**CAS Number:** 1319-77-3

Species/Strain: RATS/F 344 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

**TDMS No.** 05174 - 05

Test Type: CHRONIC

Route: DOSED FEED

Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Disposition Summary					
Animals Initially in Study Early Deaths	50	50	50	50	
Moribund Sacrifice Natural Death	12 5	10 6	9 8	14 5	
Survivors Terminal Sacrifice Animals Examined Microscopically	33 50	34 50	33 50	31 50	
LIMENTARY SYSTEM					
Esophagus Intestine Large, Cecum Parasite Metazoan	(50) (50)	(50) (50) 1 (2%)	(50) (50)	(49) (49)	
Intestine Large, Colon Parasite Metazoan	(50) 4 (8%)	(50) 3 (6%)	(50) 3 (6%)	(50) 2 (4%)	
Intestine Large, Rectum Edema Parasite Metazoan	(50) 1 (2%) 4 (8%)	(50) 5 (10%)	(50) 4 (8%)	(50) 2 (4%)	
Intestine Small, Duodenum Intestine Small, Ileum	(49) (50)	(50) (50)	(50) (50)	(49) (49)	
Intestine Small, Jejunum Liver Angiectasis	(50) (50) 5 (10%)	(50) (50) 5 (10%)	(50) (50) 7 (14%)	(49) (50) 14 (28%)	
Basophilic Focus Clear Cell Focus	24 (48%) 25 (50%)	18 (36%) 20 (40%)	17 (34%) 17 (50%)	7 (14%) 27 (54%)	
Degeneration, Cystic Eosinophilic Focus	7 (14%) 14 (28%)	9 (18%) 14 (28%)	12 (24%) 13 (26%)	9 (18%) 23 (46%)	
Fatty Change Fibrosis Hematopoietic Cell Proliferation	17 (34%) 29 (58%) 2 (4%)	20 (40%) 30 (60%) 1 (2%)	9 (18%) 29 (58%)	8 (16%) 34 (68%)	
Hepatodiaphragmatic Nodule Inflammation	2 (4%) 35 (70%)	5 (10%) 29 (58%)	3 (6%) 37 (74%)	3 (6%) 38 (76%)	
Mixed Cell Focus Necrosis Regeneration	5 (10%) 1 (2%)	3 (6%) 3 (6%) 2 (4%)	3 (6%) 1 (2%)	2 (4%) 2 (4%)	
Tension Lipidosis Bile Duct, Cyst	1 (2%)	2 (4%)	1 (2%) 1 (2%)		

a - Number of animals examined microscopically at site and number of animals with lesion

**CRESOLS** 

**CAS Number:** 1319-77-3

**Species/Strain:** RATS/F 344 **Pathologist:** BOYCE, J. - JOKINEN, M. - RYAN, M.

**TDMS No.** 05174 - 05

Test Type: CHRONIC

Route: DOSED FEED

Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Bile Duct, Hyperplasia	47 (94%)	46 (92%)	46 (92%)	45 (90%)	
Centrilobular, Degeneration	3 (6%)	5 (10%)	3 (6%)	4 (8%)	
Centrilobular, Necrosis	2 (4%)	3 (1070)	1 (2%)	1 (2%)	
Hepatocyte, Hypertrophy	1 (2%)		1 (270)	1 (270)	
Mesentery	(5)	(7)	(9)	(8)	
Accessory Spleen	(3)	1 (14%)	1 (11%)	(0)	
Fat, Necrosis	4 (80%)	6 (86%)	8 (89%)	7 (88%)	
Oral Mucosa	(0)	(1)	(0)	(2)	
Inflammation	(0)	1 (100%)	(0)	1 (50%)	
Pancreas	(49)	(50)	(50)	(49)	
Acinus, Atrophy	18 (37%)	18 (36%)	16 (32%)	12 (24%)	
Acinus, Arrophy Acinus, Hyperplasia	2 (4%)	10 (30 %)	3 (6%)	3 (6%)	
Artery, Inflammation	2 (470)	1 (2%)	3 (0%)	3 (0 %)	
Duct, Cyst	10 (20%)	10 (20%)	8 (16%)	7 (14%)	
Salivary Glands	(49)	(50)	(50)	(49)	
Submandibular Gland, Hyperplasia	1 (2%)	(50)	(30)	(49)	
Stomach, Forestomach	(49)	(50)	(50)	(50)	
Inflammation	3 (6%)	1 (2%)	1 (2%)	2 (4%)	
Ulcer	2 (4%)	2 (4%)	1 (2%)	2 (4%)	
Epithelium, Hyperplasia	2 (4%)	2 (4%)		1 (2%)	
Stomach, Glandular	(49)	(50)	(50)	(50)	
Inflammation	1 (2%)	(50)	(50)		
Ulcer	1 (270)		1 (2%)	1 (2%)	
Epithelium, Hyperplasia		1 (2%)	1 (2%)		
	(0)			(0)	
Tongue	(0)	(1)	(1)	(0)	
ARDIOVASCULAR SYSTEM					
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	42 (84%)	46 (92%)	42 (84%)	42 (84%)	
Atrium, Thrombosis	2 (4%)	1 (2%)			
Myocardium, Fibrosis		1 (2%)			
Myocardium, Mineralization	1 (2%)				
Ventricle, Thrombosis		1 (2%)			
NDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	
Angiectasis		1 (2%)			
Hyperplasia	12 (24%)	11 (22%)	10 (20%)	7 (14%)	

a - Number of animals examined microscopically at site and number of animals with lesion

**CRESOLS** 

**CAS Number:** 1319-77-3

**Species/Strain:** RATS/F 344 **Pathologist:** BOYCE, J. - JOKINEN, M. - RYAN, M.

**TDMS No.** 05174 - 05

Test Type: CHRONIC

Route: DOSED FEED

Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Necrosis	1 (2%)		4 (8%)		
Vacuolization Cytoplasmic	25 (50%)	22 (44%)	21 (42%)	19 (38%)	
Adrenal Medulla	(50)	(50)	(50)	(50)	
Angiectasis	2 (4%)	(66)	(00)	(00)	
Hyperplasia	10 (20%)	12 (24%)	11 (22%)	8 (16%)	
Infiltration Cellular, Lymphoid	10 (2070)	1 (2%)	11 (22/0)	0 (1070)	
Necrosis	1 (2%)	1 (270)			
Islets, Pancreatic	(49)	(50)	(50)	(49)	
Hyperplasia	2 (4%)	2 (4%)	1 (2%)	4 (8%)	
Parathyroid Gland	(46)	(50)	(49)	(46)	
Hyperplasia	(40)	(50)	(49)	1 (2%)	
Pituitary Gland	(50)	(50)	(49)	(50)	
Angiectasis	(30) 19 (38%)	9 (18%)	12 (24%)	8 (16%)	
Cyst	5 (10%)	5 (10%)	7 (14%)	6 (12%)	
Pars Distalis, Hyperplasia	14 (28%)	13 (26%)	14 (29%)	12 (24%)	
Pars Intermedia, Hyperplasia	14 (26 %)	13 (20%)	14 (29 %)	12 (24%)	
Thyroid Gland	(50)	(50)	(50)	(49)	
Cyst	2 (4%)	2 (4%)	(50)	(49)	
C-cell, Hyperplasia	25 (50%)	21 (42%)	17 (34%)	6 (12%)	
Follicular Cell, Cyst	25 (50%)	21 (42%)	4 (8%)	0 (12%)	
Follicular Cell, Cyst Follicular Cell, Hyperplasia	1 (2%)	1 (2%)		4 (00/)	
Рошсиаг Сеп, пурегріаsіа	I (2%)	1 (2%)	1 (2%)	4 (8%)	
ENERAL BODY SYSTEM					
Tissue NOS	(0)	(0)	(0)	(1)	
ENITAL SYSTEM					
Epididymis	(50)	(50)	(50)	(50)	
Granuloma Sperm	1 (2%)	1 (2%)	1 (2%)	,	
Inflammation	,	,	2 (4%)	1 (2%)	
Preputial Gland	(50)	(50)	(50)	(¥9) ´	
Cyst	,	,	1 (2%)	,	
Hyperplasia		3 (6%)	4 (8%)		
Inflammation	47 (94%)	49 (98%)	45 (90%)	44 (90%)	
Prostate	(50)	(50)	(50)	(50)	
Atrophy	\/	ζ/	2 (4%)	(/	
Cyst		1 (2%)	= ( · · · · /		
Hyperplasia	20 (40%)	20 (40%)	16 (32%)	22 (44%)	
	== ( )				

a - Number of animals examined microscopically at site and number of animals with lesion

**CRESOLS** 

**CAS Number:** 1319-77-3

**Species/Strain:** RATS/F 344 **Pathologist:** BOYCE, J. - JOKINEN, M. - RYAN, M.

**TDMS No.** 05174 - 05

Test Type: CHRONIC

Route: DOSED FEED

Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Seminal Vesicle Atrophy	(50)	(50) 1 (2%)	(50) 1 (2%)	(50)	
Hyperplasia		. (=/3)	. (=/*)	1 (2%)	
Inflammation	(50)	(50)	(50)	1 (2%)	
Testes Arteriole, Inflammation	(50) 1 (2%)	(50)	(50)	(50)	
Germinal Epithelium, Atrophy Interstitial Cell, Hyperplasia	1 (2%)	1 (2%)		2 (4%)	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Fibrosis	1 (2%)	0 (40/)	C (400()	1 (2%)	
Hyperplasia Necrosis	5 (10%) 1 (2%)	2 (4%)	6 (12%)	7 (14%)	
Lymph Node	(4)	(5)	(5)	(4)	
Mediastinal, Ectasia				1 (25%)	
Mediastinal, Hyperplasia, Lymphoid Pancreatic, Hyperplasia, Lymphoid		1 (20%)	1 (20%)		
Pancreatic, Pigmentation, Hemosiderin			1 (2070)	1 (25%)	
Lymph Node, Mesenteric	(49)	(50)	(50)	(50)	
Hyperplasia, Lymphoid	(40)	(50)	(50)	1 (2%)	
Spleen Atrophy	(49) 1 (2%)	(50) 2 (4%)	(50) 3 (6%)	(49) 2 (4%)	
Fibrosis	1 (2%)	2 (470)	1 (2%)	1 (2%)	
Hematopoietic Cell Proliferation	17 (35%)	16 (32%)	23 (46%)	18 (37%)	
Infiltration Cellular, Histiocyte			. (221)	1 (2%)	
Artery, Hyperplasia Artery, Inflammation			1 (2%) 1 (2%)		
Thymus	(47)	(43)	(47)	(48)	
Atrophy	44 (94%)	39 (91%)	43 (91%)	47 (98%)	
Cyst	, ,	, ,	1 (2%)	1 (2%)	
Ectopic Parathyroid Gland				1 (2%)	
NTEGUMENTARY SYSTEM					
Mammary Gland	(49)	(50)	(50)	(49)	
Hyperplasia	6 (12%)	10 (20%)	6 (12%)	8 (16%)	
Skin	(50)	(50)	(50)	(50)	
Cyst Epithelial Inclusion	1 (2%)		1 (2%)		

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**Species/Strain:** RATS/F 344 **Pathologist:** BOYCE, J. - JOKINEN, M. - RYAN, M.

**TDMS No.** 05174 - 05

Test Type: CHRONIC

Route: DOSED FEED

Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
Hyperkeratosis Inflammation	1 (2%)	1 (2%)	2 (4%)		
Epidermis, Hyperplasia Hair Follicle, Atrophy		1 (2%)	1 (2%)		
Subcutaneous Tissue, Metaplasia, Osseous		1 (2/0)	1 (2%)		
Subcutaneous Tissue, Necrosis		1 (2%)	( )		
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Hyperostosis	4 (20()			1 (2%)	
Joint, Inflammation	1 (2%)			3 (6%)	
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	
Hydrocephalus	7 (14%)	4 (8%)	4 (8%)	4 (8%)	
Hypothalamus, Compression	6 (12%)	4 (8%)	4 (8%)	4 (8%)	
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Congestion	,		1 (2%)	1 (2%)	
Fibrosis		1 (2%)			
Inflammation	26 (52%)	25 (50%)	23 (46%)	24 (48%)	
Metaplasia, Osseous		2 (4%)	1 (2%)	1 (2%)	
Metaplasia, Squamous	_ ,, ,, ,,	- 4	1 (2%)		
Alveolar Epithelium, Hyperplasia	7 (14%)	5 (10%)	8 (16%)	4 (8%)	
Nose	(50)	(50)	(50)	(50)	
Hyperplasia	47 (240/)	40 (200()	40 (200()	1 (2%)	
Inflammation	17 (34%) 23 (46%)	19 (38%)	19 (38%) 42 (84%)	28 (56%)	
Goblet Cell, Hyperplasia Respiratory Epithelium, Hyperplasia	23 (46%) 3 (6%)	40 (80%) 17 (34%)	42 (84%) 31 (62%)	47 (94%) 47 (94%)	
Respiratory Epithelium, Metaplasia,	3 (0%)	17 (34%)	8 (16%)	47 (94%) 40 (80%)	
Squamous		1 (2/0)	0 (1076)	40 (00 /0)	
Vein, Thrombosis			2 (4%)	2 (4%)	
Trachea	(50)	(50)	(50)	(49)	
Inflammation	(55)	(00)	1 (2%)	(10)	

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**CAS Number:** 1319-77-3

Species/Strain: RATS/F 344 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

**TDMS No.** 05174 - 05

Test Type: CHRONIC

Route: DOSED FEED

Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA

Lab: BAT

FISCHER 344 RATS MALE	0 PPM	1500 PPM	5000 PPM	15000 PPM	
PECIAL SENSES SYSTEM					
Eye	(49)	(50)	(50)	(50)	
Cataract Inflammation	1 (2%)	3 (6%)		1 (2%)	
Choroid, Inflammation	1 (2%)	1 (2%)			
Optic Nerve, Atrophy		2 (4%)			
Retina, Atrophy	1 (2%)	4 (8%)		1 (2%)	
Sclera, Metaplasia, Osseous	16 (33%)	29 (58%)	28 (56%)	15 (30%)	
Harderian Gland	(49)	(50)	(50)	(50)	
Atrophy	( - /	()	2 (4%)	2 (4%)	
Cyst		1 (2%)	, ,	, ,	
Hyperplasia	1 (2%)				
Inflammation	1 (2%)	6 (12%)	5 (10%)	3 (6%)	
Zymbal's Gland	(1)	(2)	(0)	(2)	
RINARY SYSTEM  Kidney Accumulation, Hyaline Droplet	(50) 1 (2%)	(50)	(50)	(50)	
Hydronephrosis	. (= /=)		1 (2%)		
Infarct	1 (2%)		1 (2%)		
Necrosis	2 (4%)	1 (2%)	1 (2%)	4 (8%)	
Nephropathy	47 (94%)	48 (96%)	46 (92%)	49 (98%)	
Capsule, Lymphangiectasis		1 (2%)			
Renal Tubule, Cyst	0 (404)	2 (4%)		4 (00)	
Renal Tubule, Hyperplasia Renal Tubule, Inflammation	2 (4%)		4 (00()	1 (2%)	
Renai Libille Inflammation			1 (2%)	3 (6%) 1 (2%)	
			- 4		
Renal Tubule, Mineralization			2 (10/2)		
Renal Tubule, Mineralization Transitional Epithelium, Hyperplasia	(1)	(0)	2 (4%)	8 (16%)	
Renal Tubule, Mineralization Transitional Epithelium, Hyperplasia Ureter	(1)	(0)	(1)	(0)	
Renal Tubule, Mineralization Transitional Epithelium, Hyperplasia Ureter Cyst		(0)			
Renal Tubule, Mineralization Transitional Epithelium, Hyperplasia Ureter	(1) 1 (100%) (49)	(0) (50)	(1)		

\*\*\* END OF MALE \*\*\*

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**TDMS No.** 05174 - 05 P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a) Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/F 344

**CRESOLS** 

**CAS Number:** 1319-77-3

Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Reqsted: 04/10/2006 Time Report Reqsted: 08:44:01 First Dose M/F: 08/05/02 / NA

Lab: BAT

**FISCHER 344 RATS MALE** 0 PPM 1500 PPM 5000 PPM 15000 PPM

\*\*\* END OF REPORT \*\*\*